

## Steel Joist Installation

### Important Notes:

#### 1/. Fixing TCG-150 Clip with TC Gun.

Imagine this is a cross section of the steel joist. When using the gun on steel, screw placement is critical. The screw must be installed as close as possible to the web of the joist (the right side of the top surface in this example).

When the screw is installed towards the center or to left side, the steel flexes and vibrates as the screw penetrates the steel. This causes inconsistent hold down. Air pressure can actually be reduced when the screw is going into the steel close to the web. The faster the screw penetrates the steel the bigger the hole it creates. A slower speed = smaller hole = greater hold down power. Test the pressure with off cuts before starting your installation.



When using the TC-Gun to install TCG Clips into steel joists use a TC-Gun that has a 20mm Up Stand Adaptor installed at the base of the gun. This will prevent the Steelthread Scrail from ricocheting off the steel joist.



20mm Up Stand

#### 2/. Fixing TCG-150 Clips with Screw Gun

When installing TCG-150 Clips manually to the joist by the using a screw gun with clutch, place the TCG Clip in the desired position and pre drill through the hole in the clip at a 45 degree angle into the joist using the clip as a guide. It is recommended to use a 7/64" drill bit and then fasten with a Steelthread Scrail or suitable self tapping screw. If you choose to use a different screw than the Steelthread Scrail please be sure to choose a minimum of a Class 3 Corrosion resistant screw that does not have too large of a countersink head that would interfere with the next adjoining board. Usually 7- 8 gauge works fine but in some cases 8 gauge heads are too large. Butt Seam Reverse Clips must always be installed using this method.



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### 3/. Weatherstrip Installation to Steel Joists.

When installing Deck Master Weatherstrip on top of your steel joists we would recommend fastening the Weatherstrip with a spray contact adhesive such as Trim-Tex 847 which is available at Boral Plasterboard outlets. Please be sure to check that the Weatherstrip is stable prior to walking on the joists. This usually takes about half an hour when using Trim-Tex 847. Environmental conditions will cause the products setting time to vary. Wipe clean the joists and the Weatherstrip before adhering to each other. If the steel joists are oily turps may be required to clean adequately. Follow all other directions noted on the can as outlined by the manufacturer.



### 4/. Top Fix Starter Clip Fixing.

Once in position fasten the Top Fix Starter Clip to the steel joist by using Metal Screws, Self Drilling, Corrosion Class 3, Button Head, 20mm x 8 Gauge. Positioning the Top Fix Starter Clip is easily done by flicking a chalk line along the top of the Weatherstrip where the back of the Top Fix Clip is to be positioned. Please note it is advised to choose straight deck boards for the first two rows of decking as the installer will not be able to use the Decking Clamps to take out any unwanted bows. It is critical that the first row is installed straight as this will be the board which all others will be spaced off.



### 5/ Safety

When using the TC-Gun to install TCG-150 clips into Steel Joists wearing safety glasses is essential. Be sure that no person is in the line of fire before discharging the TC-Gun.



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